Rabbit anti-Mouse, Rat SLC7A10 Polyclonal Antibody | anti-SLC7A10 antibody

SLC7A10 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA75770	**Rabbit**	**Mouse, Rat**	**Western Blot, Immunoprecipitation, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, ELISA**

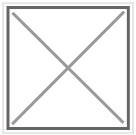
PRODUCT SYNONYMS

SLC7A10; Polyclonal Antibody; SLC7A10 Antibody; AAA1_HUMAN antibody; ASC-1 antibody; Asc-type amino acid transporter 1 antibody; D-serine transporter antibody; HASC 1 antibody; Slc7a10 antibody; Solute carrier family 7 member 10 antibody; solute carrier family 7; (neutral amino acid transporter; y+ system) member 10 antibody; anti-SLC7A10 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Form/Format	Affinity Purified Immunoglobulins
Sequence Length	523
Applicable Applications for anti-SLC7A10 antibody	WB (Western Blot), IP (Immunoprecipitation), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA, CM (Confocal Microscopy)
Immunogen	Synthetic peptide taken within amino acid region 1-50 on rat Asc-type amino acid transporter 1 protein.
Determinant	N-epitope
Structure	Disulfide-linked heterodimer.
Immunoglobulin & Concentration	0.75 mg/mL IgG in antibody stabilization buffer
Preparation and Storage	Store at -20°C for long term storage.

IMAGES



WB (Western Blot)

ADDITIONAL INFORMATION

Related Product Information for anti-SLC7A10 antibody	Amino acid transport across the plasma membrane is mediated by both sodium-dependetn and sodium independent transport mechanism (1). It has been shown that sodium-independent amino acid transporter covalently interact with the heavy chain of a cell surface antigen 4F2 also known as CD98. Structurally 4F2 compose of a 4F2 heavy chain (4F2hc) is an integral membrane protein and a light chain that has intrinsic amino acid transport properties. Various amino acid transporters including transport type L, y + L and xc- has been shown to be the 2F4 light chains and assemble with 2F4hc for their functional amino acid transport activities (3,4). Recently a protein structurally related to amino acid transporter, with a characteristic 12 transmembrane domains has been cloned mouse brain that associates with 2F4hc for its small neutral amino acid transport activity (1). This transporter belongs to the LAT2 family, a component for system L transporter. The ASC-1 showed 65% identity to LAT2, 45% to LAT1,Y +LAT1 and KIAA0245/y+LAT2 type transporters(5). The transporter ASC-1 is a member of the solute carrier family 7 and serves as a cationic amino acid transporter (y+ system). The ASC-1 protein has 530 amino acids (MW 63-64 kDa) is expressed in brain, lungs and intestine. It has two consensus phosphorylation sites (PKA and PKC) that are conserved in all y+ transport system. ASC1 tranporter also transports with high affinity D and L- amino acid related compounds and may involvein glutaminergic transmission in brain by modulating D-serine at glutaminergic synapse. ASC-1 forms disulfide dimmers with ASC transporter and SLC3A2/4F2hc proteins. The ASC-1 selective antibodies was generated against C-terminal peptides that are unique to ASC-1 protein. These antibodies have been fully characterized for cross reactivity with other members of the amino acid transporter system/
Product Categories/Family for anti-SLC7A10 antibody	Primary Antibodies; Channels & Transporters; SLC7A10 Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	25089504
NCBI GeneID	56301
UniProt Accession #	Q9NS82; B2RE84
NCBI Official Full Name	Asc-type amino acid transporter 1
NCBI Official Synonym Full Names	solute carrier family 7 member 10
NCBI Official Symbol	SLC7A10
NCBI Official Synonym Symbols	ASC1; asc-1; HASC-1
NCBI Protein Information	asc-type amino acid transporter 1
UniProt Protein Name	Asc-type amino acid transporter 1
UniProt Gene Name	**SLC7A10**
UniProt Synonym Gene Names	ASC1; Asc-1
UniProt Entry Name	AAA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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